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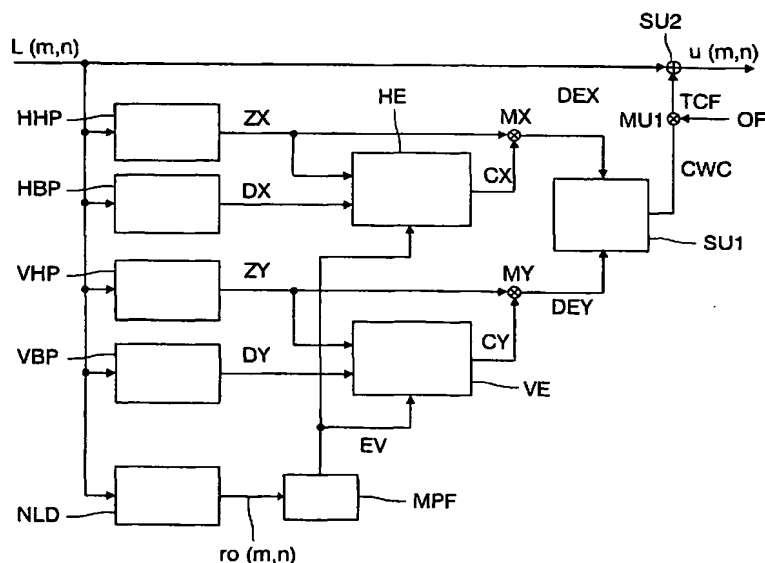
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(54) Title: SHARPNESS ENHANCEMENT



**(57) Abstract:** A two-dimensional enhancement function (HEF; VEF) determines a peaking factor (CX; CY) for an input signal (L(m,n)) based on the output signals of both a first edge detector (HHP; VHP) and a second edge detector (HBP; VBP) which both operate in the same first spatial direction. In this manner, all different kind of borders which may occur in the input signal (L(m,n)) in the first spatial direction are distinguished. The two-dimensional enhancement function (HEF; VEF) allocates values which determine the amount of peaking to the different combinations of the output signals (ZX, DX; ZY, DY). It is possible to select the values allocated by the two-dimensional enhancement function (HEF; VEF) different for different kind of borders to obtain the desired amount of peaking fitting each kind of border best.